

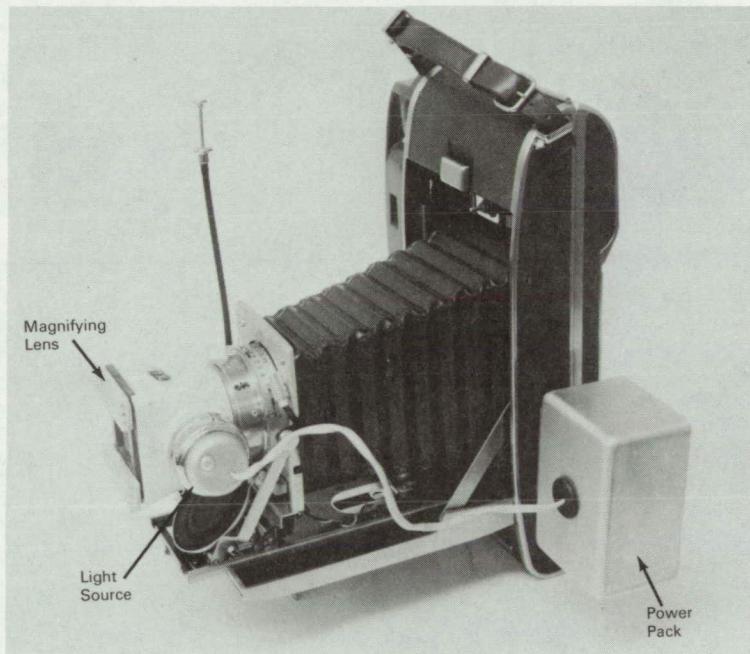
SK

NASA TECH BRIEF



NASA Tech Briefs are issued to summarize specific innovations derived from the U.S. space program, to encourage their commercial application. Copies are available to the public at 15 cents each from the Clearinghouse for Federal Scientific and Technical Information, Springfield, Virginia 22151.

Camera Lens Adapter Magnifies Image



The problem:

In the inspection of welds for possible flaws, such as cracks or discontinuities, those that are not visible to the naked eye must be photographed in close-up and the negative must then be enlarged to bring out the required detail. All of this involves time and expense and adds delay to corrective procedures.

The solution:

An illuminated 7-power magnifier adapted to the lens of a standard Polaroid Land camera.

How it's done:

A Polaroid camera is modified by the addition of a magnifying lens and light source mounted in a depth-

adjustable support bracket. The light source is diffused to eliminate hot spots or reflection. Power for the light source is supplied by two C-size dry batteries contained in a pack that is mounted on the camera case.

Notes:

1. Weld flaws are first located by inspection with a 10-power magnifying glass and then photographed with this device, thus providing immediate pictorial data for use in remedial procedures.
2. A survey of suppliers has revealed that no such device is commercially available.

(continued overleaf)

3. Inquiries concerning this invention may be directed to:

Technology Utilization Officer
Marshall Space Flight Center
Huntsville, Alabama 35812
Reference: B67-10431

Patent status:

This is the invention of a NASA employee and a patent application has been filed. Inquiries concerning license rights may be made directly to the inventor, Mr. F. L. Moffitt, at Marshall Space Flight Center.

(MFS-11955)